

APPLICANT(S): GOTHAIT, Hanan et al.
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AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows:

The listing of the claims will replace all prior versions, and listing, of claims in the application:

Listing of the Claims

1. (Original) A method for three-dimensional printing of a three-dimensional model, said method comprising:

selectively dispensing a first interface material and a second interface material from a printing head, said first interface material and said second interface material being different

each of said first interface material and said second interface material comprising photopolymer materials.

2. (Currently Amended) A method according to claim 1, wherein at least one of said first interface material and said second interface material includes reactive acrylates and is curable by the application of radiation.

3. (Original) A method according to claim 1, comprising ejecting said first interface material and said second interface material in a given layer in different mix formulations to form a specified type of material.

4. (Currently Amended) A method according to claim 1, comprising curing said first and second interface materials using radiation, ~~said radiation being any one of a group including ultra-violet radiation, infra-red radiation and E-beam.~~

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5. (Previously Presented) A method according to claim 3, wherein one of said mix formulations of said first interface material and said second interface material forms a model layer.

6. (Currently Amended) A method according to claim 3, wherein one of said mix ~~formulation~~ formulations of said first interface material and said second interface material forms a support layer.

7. (Previously Presented) A method according to claim 3, wherein one of said mix formulations of said first interface material and said second interface material forms a release layer.

8. (Previously Presented) A system for three-dimensional printing of a three-dimensional model, said system comprising:

a printing head for selectively dispensing a first interface material and a second interface material, said first interface material and said second interface material being different;

each of said first interface material and said second interface material comprising photopolymer material; and

a source of radiation for curing of at least one of said interface materials.

9. (Currently Amended) A system according to claim 8, wherein at least one of said first interface material and said second interface material includes reactive acrylates.

10. (Original) A system according to claim 8, wherein said printing head is an ink-jet printing head.

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11. (Original) A system according to claim 8, wherein said second interface material is curable.

12. (Original) A system according to claim 8, wherein said first interface material and said second interface material are ejected in a given layer in different mix formulations to form different types of materials.

13. (Previously Presented) A system according to claim 8, wherein said radiation is selected from a group consisting of ultra-violet radiation, infra-red radiation and E-beam.

14. (Previously Presented) A system according to claim 12, wherein said mix formulations of said first interface material and said second interface material form model layers.

15. (Previously Presented) A system according to claim 12, wherein said mix formulations of said first interface material and said second interface material form support layers.

16. (Currently amended) A system according to claim 12, wherein said mix formulations of said first interface material and said second interface material form release layers.

17 (Previously Presented) A method for three-dimensional printing of a three-dimensional component, said method comprising:

selectively dispensing a first interface material and a second interface material from at least one printing head, said first interface material and said second interface material being different;

wherein at least one of said first interface material and said second interface material comprises a photopolymer material including reactive acrylates.

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18. (Previously Presented) A method according to claim 17, wherein said first interface material and said second interface material are dispensed by one or more inkjet printing heads.

19. (Previously Presented) A method according to claim 17, further comprising curing said photopolymer material using radiation.

20. (Previously Presented) A method according to claim 17, further comprising curing said first interface material and said second interface material using radiation.

21. (Previously Presented) A method according to claim 19, wherein said radiation is selected from a group consisting of ultra-violet radiation, infra-red radiation and E-beam.

22. (Previously Presented) A method according to claim 20, wherein said radiation is selected from a group consisting of ultra-violet radiation, infra-red radiation and E-beam.

23. (Previously Presented) A method according to claim 17, wherein said photopolymer material forms the three-dimensional component.

24. (Previously Presented) A method according to claim 17, wherein said photopolymer material forms a model layer.

25. (Previously Presented) A method according to claim 17, wherein said photopolymer material forms at least part of a support layer.

26. (Previously Presented) A system for three-dimensional printing of a three-dimensional component, said system comprising:

at least one printing head for selectively dispensing a first interface material and a second interface material, said first interface material and said second interface material being different;

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wherein at least one of said first interface material and said second interface material comprises a photopolymer material including reactive acrylate; and

a source of radiation for curing at least one of said first interface material and second interface material.

27. (Previously Presented) A system according to claim 26, wherein said at least one printing head is an ink-jet printing head.

28. (Previously Presented) A system according to claim 26, wherein said first interface material and said second interface material are ejected in a given layer in different mix formulations.

29. (Previously Presented) A system according to claim 28, wherein said mix formulations form different types of material.

30. (Previously Presented) A system according to claim 28, wherein said mix formulations form a model layer.

31. (Previously Presented) A system according to claim 28, wherein said mix formulations form a support layer.

32. (Previously Presented) A system according to claim 28, wherein said mix formulations form a release layer.

33. (Previously Presented) A system according to claim 26, wherein said radiation is selected from a group consisting of ultra-violet radiation, infra-red radiation and E-beam

34. (New) A method according to claim 4, wherein curing said first and second interface materials comprises using ultra-violet radiation, infra-red radiation or E-beam.

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